



1642

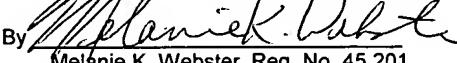
#3

PATENT

Our Docket: P-LJ 5037

In re Application of)
Reed et al.) Examiner: Unassigned
)
Serial No.: 10/001,254) Group Art Unit: 1642
)
Filed: November 15, 2001)
)
For: NOVEL DEATH DOMAIN PROTEINS)
)
Commissioner for Patents
Washington, D.C. 20231

I hereby certify that this correspondence is
being deposited with the United States
Postal Service as first class mail in an
envelope addressed to: Commissioner for Patents,
Washington, D.C. 20231, on March 8, 2002.

By 
Melanie K. Webster, Reg. No. 45,201

March 8, 2002
Date of Signature

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. § 1.97, enclosed are references relating to the above-identified application. For the convenience of the Examiner, these references are listed on the attached Form PTO-1449, and a copy of each is enclosed herewith.

It is respectfully requested that these references be considered in the examination of this application and that their consideration be made of written record in the application file.

No fee is deemed necessary in connection with the filing of this Information Disclosure Statement. However, if any fee is required, authorization is hereby given to charge the amount of any such fee to Deposit Account No. 03-0370.

Respectfully submitted,



Melanie K. Webster

Registration No.: 45,201

Telephone: (858) 535-9001

Facsimile: (858) 535-8949

Campbell & Flores LLP
4370 La Jolla Village Drive
7th Floor
San Diego, California 92122
USPTO CUSTOMER NO. 23601



Form PTO 1449 Department of Commerce Patent and Trademark Office	ATTY DOCKET NO: P-LJ 5037	SERIAL NO. 10/001,254
	APPLICANT: Reed et al.	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	FILING DATE: November 15, 2001	GROUP: 1642

U.S. PATENT DOCUMENTS

EXAM. INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE

FOREIGN PATENT DOCUMENTS

EXAM. INITIALS	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION (YES/NO)

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

		Altschul et al., "Basic local alignment search tool," <u>J. Mol. Biol.</u> 215:403-410 (1990).
		Altschul et al., "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs," <u>Nucleic Acids Res.</u> 25:3389-3402 (1997).
		Ashkenazi and Dixit, "Death receptors: signaling and modulation," <u>Science</u> 281:1305-1308 (1998).

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Form PTO 1449 US Department of Commerce Patent and Trademark Office	ATTY DOCKET NO: P-LJ 5037	SERIAL NO. 10/001,254
	APPLICANT: Reed et al.	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	FILING DATE: November 15, 2001	GROUP: 1642

	Boldin et al., "Involvement of MACH, a novel MORT1/FADD-interacting protease, in Fas/Apo-1- and TNF receptor-induced cell death," <u>Cell</u> 85: 803-815 (1996).
	Campbell et al., "The development of chlamydia trachomatis inclusions within the host eukaryotic cell during interphase and mitosis," <u>J. Gen. Micro.</u> 135:1153-1165 (1989).
	Deveraux et al., "X-linked IAP is a direct inhibitor of cell death proteases," <u>Nature</u> 388:300-304 (1997).
	Eberstadt et al., "NMR structure and mutagenesis of the FADD (Mort1) death-effector domain," <u>Nature</u> 392:941-945 (1998).
	Estojak et al., "Correlation of two-hybrid affinity data with in vitro measurements," <u>Mol. Cell Biol.</u> 15:5820 (1995).
	Fan et al., "Inhibition of apoptosis in Chlamydia-infected cells: blockade of mitochondrial cytochrome c release and caspase activation," <u>J. Exp. Med.</u> 187:487-497 (1998).
	Gibellini et al., "Induction of apoptosis by Chlamydia psittaci and Chlamydia trachomatis infection in tissue culture cells," <u>Zentralblatt fur Bakteriologie</u> 288:35-43 (1998).
	Gish and States, "Identification of protein coding regions by database similarity search," <u>Nature Genet.</u> 3:266-272 (1993).
	Grutter, "Caspases: key player in programmed cell death," <u>Curr. Opin. Struct. Biol.</u> 10:649-655 (2000).
	Haraguchi et al., "Apoptotic protease activating factor 1 (Apaf-1)-independent cell death suppression by Bcl-2," <u>J. Exp. Med.</u> 191:1709-1720 (2000).

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Form PTO 1449 Department of Commerce Patent and Trademark Office	ATTY DOCKET NO: P-LJ 5037	SERIAL NO. 10/001,254
	APPLICANT: Reed et al.	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	FILING DATE: November 15, 2001	GROUP: 1642

	Hauser and Engel, "Pseudomonas aeruginosa induces type-III-secretion-mediated apoptosis of macrophages and epithelial cells," <u>Infect. Immun.</u> 67:5530-5537 (1999).
	Hersh et al., "The Salmonella invasion SipB induces macrophage apoptosis by binding to caspase-1" <u>Proc. Natl. Acad. Sci. USA</u> 96:2396-2401 (1999).
	Jaroszewski et al., "Fold prediction by a hierarchy of sequence threading and modeling methods," <u>Protein Science</u> 7:1431-1440 (1998).
	Juo et al., "Essential requirement for caspase-8/FLICE in the initiation of the Fas-induced apoptotic cascade," <u>Curr. Biol.</u> 8:1001-1008 (1998).
	Kischkel et al., "Apo2L/TRAIL-dependent recruitment of endogenous FADD and caspase-8 death receptors 4 and 5," <u>Immunity</u> 12:611-620 (2000).
	Kissil et al., "Isolation of DAP3, a novel mediator of interferon- γ -induced cell death," <u>J. Biol. Chem.</u> 270: 27932-27936 (1995).
	Kissil et al., "Structure-function analysis of an evolutionary conserved protein, DAP3, which mediates TNF- α - and Fas-induced cell death," <u>EMBO J.</u> 18:353-362 (1999).
	Leo et al., "Differential requirements for tumor necrosis factor receptor-associated factor family proteins in CD40-mediated induction of NF- κ B and jun N-terminal kinase activation," <u>J. Biol. Chem.</u> 274:22414-22422 (1999).
	Li et al., "Saturated BLAST: an automated multiple intermediate sequence search used to detect distant homology," <u>Bioinformatics</u> 16:1105-1110 (2000).
	Madden et al., "Applications of Network BLAST server," <u>Meth. Enzymol.</u> 266: 131-141 (1996).

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Form PTO 1449 & TRADEMARK OFFICE Department of Commerce Patent and Trademark Office	ATTY DOCKET NO: P-LJ 5037	SERIAL NO. 10/001,254
	APPLICANT: Reed et al.	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	FILING DATE: November 15, 2001	GROUP: 1642

	Matsuzawa et al., "p53-inducible human homologue of <i>Drosophila seven in absentia</i> (Siah) inhibits cell growth: suppression by BAG-1," <u>EMBO J.</u> 17:2736-2747 (1998).
	Muzio et al. "An induced proximity model for caspase-8 activation," <u>J. Biol. Chem.</u> 273:2926-2930 (1998).
	Muzio et al., "FLICE, a novel FADD-homologous ICE/CED-3-like protease, is recruited to the CD95 (Fas/APO-1) death-inducing signaling complex," <u>Cell</u> 85:817-827 (1996).
	Nagata, S., "Fas-induced apoptosis, and disease caused by abnormality," <u>Genes Cells</u> 1:873-879 (1996).
	Oddo et al., "Fas ligand-induced apoptosis of infected human macrophages reduces the viability of intracellular Mycobacterium tuberculosis," <u>J. Immunol.</u> 160:5448-5454 (1998).
	Ojcius et al., "Apoptosis of epithelial cells and macrophages due to infection with the obligate intracellular pathogen Chlamydia psittaci," <u>J. Immunol.</u> 161:4220-4226 (1998).
	Ojcius et al., "Enhancement of ATP levels and glucose metabolism during an infection by Chlamydia," <u>J. Biol. Chem.</u> 273:7052-7058 (1998).
	Sali, A. and Blundell, T., "Comperative protein modelling by satisfaction of spatial restraints," <u>J. Mol. Biol.</u> 234:779-815 (1993).
	Salvesen and Dixit, "Caspase activation: the induced-proximity model," <u>Proc. Natl. Acad. Sci. USA</u> 96:10964-10967 (1999).
	Salvesen et al., "Caspase 8: igniting the death machine," <u>Structure Fold. Des.</u> 7:R225-229 (1999).
	Sato et al., "A novel member of TRAF family of putative signal transducing proteins binds to the cytosolic domain of CD40," <u>FEBS Lett.</u> 358:113-118 (1995).

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Form PTO 1449 U.S. Department of Commerce Patent and Trademark Office	ATTY DOCKET NO: P-LJ 5037	SERIAL NO. 10/001,254
	APPLICANT: Reed et al.	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	FILING DATE: November 15, 2001	GROUP: 1642

	Sato et al., "FAP-1: A protein tyrosine phosphatase that associates with Fas," <u>Science</u> 268:411-415 (1995).
	Sato et al., "Interactions among members of the Bcl-2 protein family analyzed with a yeast two-hybrid system," <u>Proc. Natl. Acad. Sci. USA</u> 91:9238-9242 (1994).
	Scanlan et al., "Antigens recognized by autologous antibody in patients with renal-cell carcinoma," <u>Int. J. Cancer</u> 83: 456-464 (1999).
	Schneider et al., "Characterization of two receptors for TRAIL," <u>FEBS Lett.</u> 416: 329-334 (1997).
	Schneider et al. "TRAIL receptors 1 (DR4) and 2 (DR5) signal FADD-dependent apoptosis and activate NF- κ B," <u>Immunity</u> 7:831-836 (1997).
	Sprick et al., "FADD/MORT1 and caspase-8 recruited to TRAIL receptors 1 and 2 and are essential for apoptosis mediated by TRAIL receptor 2," <u>Immunity</u> 12:599-609 (2000).
	Srinivasula et al., "Autoactivation of procaspase-9 by Apaf-1-mediated oligomerization," <u>Mol. Cell</u> 1:949-957 (1998).
	Stegh, et al., "DEDD, a novel death effector domain-containing protein, targeted to the nucleolus," <u>EMBO J.</u> 17:5974-5986 (1998).
	Takayama et al., "BAG-1 modulates the chaperone activity of Hsp70/Hsc70," <u>EMBO J.</u> 16:4887-4896 (1997).
	Tatusova and Madden, "BLAST 2 sequences, a new tool for comparing protein and nucleotide sequences," <u>FEMS Microbiol. Lett.</u> 174:247-250 (1999).
	Thornberry et al., "A combinatorial approach defines specificities of members of the caspase family and granzyme B," <u>J. Biol. Chem.</u> 272:17907-17911 (1997).

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Form PTO 1449 US Department of Commerce Patent and Trademark Office	ATTY DOCKET NO: P-LJ 5037	SERIAL NO. 10/001,254
	APPLICANT: Reed et al.	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	FILING DATE: November 15, 2001	GROUP: 1642

	Torii et al., "Human daxx regulates fas-induced apoptosis from nuclear PML oncogenic domains (PODs). <u>EMBO J.</u> 18:6037-6049 (1999).
	Tyers and Jorgesen, "Proteolysis and the cell cycle: with this RING I do thee destroy," <u>Curr. Opin. Genet. Dev.</u> 10:54-64 (2000).
	van der Biezen and Jones, "The NB-ARC domain: a novel signalling motif shared by plant resistance gene products and regulators of cell death in animals," <u>Curr. Biol.</u> 8:R226-R227 (1998).
	Varfolomeev et al., "Targeted disruptions of the mouse caspase 8 gene ablates cell death induction by the TNF receptors, Fas/Apol, and is lethal prenatally," <u>Immunity</u> 9:267-276 (1998).
	Walczak et al., "TRAIL-R2: a novel apoptosis-mediating receptor for TRAIL," <u>EMBO J.</u> 16:5386-5397 (1997).
	Wallach et al., "Tumor necrosis factor receptor and Fas signaling mechanisms," <u>Annu. Rev. Immunol.</u> 17:331-367 (1999).
	Wang and Lenardo, "Molecules involved in cell death and peripheral tolerance," <u>Curr. Opin. Immunol.</u> 9:818-825 (1997).
	Yang et al., "Essential role of CED-4 oligomerization in CED-3 activation and apoptosis," <u>Science</u> 281:1355-1357 (1998).
	Zhang and Madden, "PowerBLAST: a new network BLAST application for interactive or automated sequence analysis and annotation," <u>Genome Res.</u> 7:649-656 (1997).
	Zychlinsky et al., "Shigella flexneri induces apoptosis in infected macrophages," <u>Nature</u> 358:167-169 (1992).
	GenBank Accession No.: AA114228; GI No.: 1668121
	GenBank Accession No.: AA218681; GI No.: 1832773
	GenBank Accession No.: AAD42884; GI No.: 5360131

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Form PTO & TRADEMARK OFFICE 1449	US Department of Commerce Patent and Trademark Office	ATTY DOCKET NO: P-LJ 5037	SERIAL NO. 10/001,254
		APPLICANT: Reed et al.	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		FILING DATE: November 15, 2001	GROUP: 1642

	GenBank Accession No.: AAF39693; GI No.: 7190927
	GenBank Accession No.: AC006486; GI No.: 4210498
	GenBank Accession No.: AE001331; GI No.: 3329046
	GenBank Accession No.: AF155118; GI No.: 5360130
	GenBank Accession No.: AI598730; GI No.: 4607778
	GenBank Accession No.: AV149215; GI No.: 5353348
	GenBank Accession No.: AW227145; GI No.: 6556441
	GenBank Accession No.: AW229739; GI No.: 6559035
	Genbank Accession No.: AW429324; GI No.: 6960635
	GenBank Accession No.: AW449244; GI No.: 6990020
	GenBank Accession No.: B72040; GI No.: 7468151
.	GenBank Accession No.: BE242821; GI No.: 9094541
.	GenBank Accession No.: BE797255; GI No.: 10218453
	GenBank Accession No.: NM016123; GI No.: 7705840
	GenBank Accession No.: NP004623; GI No.: 4758118
	GenBank Accession No.: NP057207; GI No.: 7705841
	Genbank Accession No.: X83544; GI No.: 1089849

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.